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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. FILING DATE APPLICATION NO. 224344 10/677,448 10/02/2003 Gary Paulsen **EXAMINER** 05/18/2004 23460 EVANS, ROBIN OCTAVIA LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 PAPER NUMBER **ART UNIT** 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780 3742

DATE MAILED: 05/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			AΛΛ
	Application No.	Applicant(s)	-NV
	10/677,448	PAULSEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Robin O. Evans	3752	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	ith the correspondence address	S
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a post of the statutory minimum of thire dwill apply and will expire SIX (6) MON the, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on <u>02</u>	October 2003.		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal mat	ters, prosecution as to the me	rits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-28 is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9,11,12,14 and 21-25</u> is/are reject	ted.		
7)⊠ Claim(s) <u>10,13,15-20 and 26-28</u> is/are object			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to th	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	•		
11)☐ The oath or declaration is objected to by the B	Examiner. Note the attache	d Office Action or form PTO-1	52 <i>.</i>
Priority under 35 U.S.C. § 119			
 12) ☐ Acknowledgment is made of a claim for foreignal (a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority document 	nts have been received. nts have been received in A	Application No	ge
application from the International Bure			
* See the attached detailed Office action for a list	·	received.	
Attachment(s)	∆ □ 1=4=e+	Summer and (DTO 442)	•
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0) Paper No(s)/Mail Date	8) 5) Notice of I 6) Other:	Informal Patent Application (PTO-152))

Application/Control Number: 10/677,448

Art Unit: 3752

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-9, 11, 12, 14 and 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Carlson (2,090,284).

Carlson shows a spray nozzle having a nozzle body 7, discharge orifice having a generally inverted teardrop configuration with a relatively larger area upper portion and a relatively smaller area lower portion arranged below the upper portion as can be seen in figure 3, hood 9 and pre-orifice member 23.

3. Claim 25 is rejected under 35 U.S.C. 102(b) as being anticipated by Stumphauzer et al. (3,737,108).

Stumphauzer et al. shows a spray nozzle having a nozzle body B defining an elongated internal flow passage, a downstream end wall having a convex configuration, a side wall and a discharge orifice in the end wall having a generally inverted teardrop configuration as can be seen in figure 1.

Allowable Subject Matter

4. Claims 10, 13, 15-20 and 26-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rabitsch, Robinson, Hegstad, O'Brien et al., Malcolm, and Johnson show spray nozzles in the general state of the art of the invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robin O. Evans whose telephone number is (703) 305-5766. The examiner can normally be reached on Monday-Thursday, 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Mar can be reached on (703) 308-2087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robin O. Evans Primary Examiner

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